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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/691,701	10/24/2003	Po-Hung Wang	IPC 103	6787

7590 02/22/2006

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EXAMINER

BUI, HUNG S

ART UNIT	PAPER NUMBER
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2841

DATE MAILED: 02/22/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/691,701

Applicant(s)

WANG ET AL.

Examiner

Hung S. Bui

Art Unit

2841

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 December 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) 11-18 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 October 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 05/11/2004.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Election/Restrictions

1. Claims 11-18 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected claimed invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 12/06/2005.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-7 and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Asla et al. [US 5,540,376].

Regarding claim 1, Asla et al. disclose an adjustable frame structure (figure 2), comprising:

- a frame (26, 40);
- two parallel tracks (28, 30) formed on the opposite sides of the frame, respectively, and at least one movable bar (32 or 34);
- wherein the at least one movable bar can move on the frame through the tracks to adjust the location of the at least one movable bar on the frame according to the size of the circuit board (figure 2).

Regarding claims 2 and 5, Asla et al. disclose a plurality of first fasteners formed on the frame (figure 2).

Regarding claim 3, Asla et al. further disclose a rolling piece (50) formed on the end of the at least one movable bar (figure 2).

Regarding claim 4, Asla et al. further disclose a plurality of second fasteners (36) formed on the at least one movable bar (figure 2).

Regarding claim 6, Asla et al. disclose wherein the at least one fastener (36) for fixing the circuit board is mounted on the at least one movable bar (figure 2).

Regarding claim 7, Asla et al. further disclose wherein a respective rolling piece is mounted on the two ends of the movable bar to roll in the parallel tracks (figure 2).

Regarding claim 10, Asla et al. disclose wherein the at least one second fastener is rotated onto the circuit board and produces a downward pressure on the circuit board to secure the circuit board.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 8-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Asla et al. in view of Ortiz [US 5,820,013].

Regarding claims 8-9, Asla et al. disclose the instant claimed invention except for the specific of rolling formed of a roller/ball.

Official notice is taken that it is well known to use a fastener means, such as a bolt, roller or ball to adjust and secure a holder/movable bar to a frame.

The specific type of the fastener means would have been an obvious design consideration based on the specific type of the particular fastener means intended to be used with the device.

Ortiz disclose an adjustable support for mounting a printed circuit board (figures 1-2 and 3a-3d) using at least one roller (column 6, lines 10-14, figure 3c) to adjust the printed circuit board in the frame.

It would have been an obvious to one of ordinary skill in the art at the time the invention was made to use the roller design of Ortiz in Asla et al., for the purpose of enabling adjustment the circuit board in frame.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- Hunt et al. [US 5,003,254] disclose multi-axis universal circuit board;
- Jelinger [US 6,166,916] discloses an adjustable circuit board support frame;
- Cascini [US 5,067,648] discloses an apparatus for holding printed circuit board; and
- Sullivan [US 4,948,108] discloses a circuit board support device.


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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung S. Bui whose telephone number is (571) 272-2102. The examiner can normally be reached on Monday-Friday 8:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo can be reached on (571) 272-1957. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

2/15/06
Hung Bui
Art Unit 2841



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